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OM protein - protein search, using sw model

Run on: August 28, 2002, 17:29:54 ; Search time 79.38 seconds

(without alignments)
686.085 Million cell updates/sec

Title: US-09-502-984B-1

Perfect score: 1194

Sequence: 1 APPPNLPDPKFKSKALLAA.....GGFWSAMSEPVSLTPSDLD 225

Scoring table: BLOSUM62

Searched: Gapop 10.0 , Gapext 0.5

Total number of hits satisfying chosen parameters: 747981

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : Pending_Patents_AA_New:*

1: /cgn2_6/ptodata/1/paa/PCU_NEW_COMB.pep:*
2: /cgn2_6/ptodata/1/paa/US06_NEW_COMB.pep:*
3: /cgn2_6/ptodata/1/paa/US07_NEW_COMB.pep:*
4: /cgn2_6/ptodata/1/paa/US08_NEW_COMB.pep:*
5: /cgn2_6/ptodata/1/paa/US09_NEW_COMB.pep:*
6: /cgn2_6/ptodata/1/paa/US10_NEW_COMB.pep:*
7: /cgn2_6/ptodata/1/paa/US60_NEW_COMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1194	100.0	225	US-09-502-984B-1	Sequence 1, Appl
2	1194	100.0	508	US-09-791-537-99806	Sequence 99806, A
3	1177	98.6	228	US-09-791-537-38134	Sequence 38134, A
4	1158.5	97.0	227	US-09-791-537-68105	Sequence 68105, A
5	1133	94.9	215	US-09-791-537-105911	Sequence 105911, A
6	1123	94.1	213	US-09-791-537-67299	Sequence 67299, A
7	1112	93.1	211	US-09-502-984B-2	Sequence 2, Appl
8	1112	93.1	211	US-09-791-537-86927	Sequence 86927, A
9	1100	92.1	211	US-09-502-984B-18	Sequence 18, Appl
10	1099	92.0	211	US-09-502-984B-7	Sequence 7, Appl
11	1097	91.9	211	US-09-502-984B-12	Sequence 12, Appl
12	1096	91.8	211	US-09-502-984B-13	Sequence 13, Appl
13	1096	91.8	211	US-09-502-984B-14	Sequence 14, Appl
14	1096	91.8	211	US-09-502-984B-15	Sequence 15, Appl
15	1095	91.7	211	US-09-502-984B-11	Sequence 11, Appl
16	1091	91.4	211	US-09-502-984B-19	Sequence 19, Appl
17	1090	91.3	211	US-09-502-984B-9	Sequence 9, Appl
18	1090	91.3	211	US-09-502-984B-10	Sequence 10, Appl
19	1088.5	91.2	212	US-09-502-984B-3	Sequence 3, Appl
20	1086	91.0	211	US-09-502-984B-4	Sequence 4, Appl
21	1086	91.0	211	US-09-502-984B-5	Sequence 5, Appl
22	1086	91.0	211	US-09-502-984B-17	Sequence 17, Appl
23	1086	91.0	211	US-09-502-984B-20	Sequence 20, Appl
24	1083	90.7	211	US-09-502-984B-8	Sequence 8, Appl
25	1080	90.5	211	US-09-502-984B-16	Sequence 16, Appl
26	1077	90.2	211	US-09-502-984B-21	Sequence 21, Appl

27	1077	90.2	211	US-09-502-984B-24	Sequence 24, Appl
28	1076	90.1	211	US-09-502-984B-25	Sequence 25, Appl
29	1074	89.9	211	US-09-502-984B-23	Sequence 23, Appl
30	1072	89.8	211	US-09-502-984B-22	Sequence 22, Appl
31	1072	89.8	211	US-09-502-984B-26	Sequence 26, Appl
32	1071	89.7	211	US-09-502-984B-28	Sequence 28, Appl
33	1061	88.9	211	US-09-502-984B-27	Sequence 27, Appl
34	1060	88.8	211	US-09-502-984B-6	Sequence 6, Appl
35	1060	88.8	249	US-09-502-984B-37	Sequence 37, Appl
36	1049	87.9	211	US-09-502-984B-29	Sequence 29, Appl
37	982.5	82.3	507	US-09-791-537-1440	Sequence 1440, Ap
38	982.5	82.3	507	US-09-791-537-126514	Sequence 126514,
39	981.5	82.2	507	US-09-791-537-9845	Sequence 9845, Ap
40	966.5	80.9	265	US-09-791-537-4913	Sequence 4913, Ap
41	965.5	80.9	316	US-09-791-537-55613	Sequence 55613, A
42	851	71.3	229	US-09-791-537-40030	Sequence 40030, A
43	846	70.9	229	US-09-791-537-40031	Sequence 40031, A
44	222.5	18.6	117	US-09-831-458A-5	Sequence 5, Appl
45	205	17.2	625	US-10-099-895-34	Sequence 34, Appl

ALIGNMENTS

```
RESULT 1
US-09-502-984B-1
; Sequence 1, Application US/09502984B
; GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RPT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984B
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-502-984B-1

Query Match          100.0%; Score 1194; DB 5; Length 225;
Best Local Similarity 100.0%; Pred. No. 2.7e-106;
Matches 225; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 APPPNLPDPKFKSKALLAARGPEELCTETLEEDLVCFWEMAAAGVGPNGYSFYOLE 60
    |||||||
DB 1 APPPNLPDPKFKSKALLAARGPEELCTETLEEDLVCFWEMAAAGVGPNGYSFYOLE 60

QY 61 DPMWLCRHOAPRTGAGVRFWCSLPTADTSFVPLELRVTASGAPRRHYIHINEVYL 120
    |||||||
DB 61 DPMWLCRHOAPRTGAGVRFWCSLPTADTSFVPLELRVTASGAPRRHYIHINEVYL 120

QY 121 IDAPVGLVARLADESGHVYLRWLPPETPMTSHIREVDVSAAGAGSVQVREILLEGRT 180
    |||||||
DB 121 IDAPVGLVARLADESGHVYLRWLPPETPMTSHIREVDVSAAGAGSVQVREILLEGRT 180

QY 181 CVLSNLRGRTRTTVARRAMAPSPSGGWSAMSEPVSLTPSDLD 225
    |||||||
DB 181 CVLSNLRGRTRTTVARRAMAPSPSGGWSAMSEPVSLTPSDLD 225

RESULT 2
US-09-791-537-99806
; Sequence 99806, Application US/09791537
; GENERAL INFORMATION:
; APPLICANT: Biomomix, Inc.
; APPLICANT: Derek
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; APPLICANT: Danzer, Joseph
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBE
; FILE REFERENCE: 261/210
; CURRENT APPLICATION NUMBER: US/09/791,537
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 153055
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 99806
; LENGTH: 508
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-791-537-99806
```

```

Query Match          100.0%; Score 1194; DB 5; Length 508;
Best Local Similarity 100.0%; Pred. No. 7.6e-106;
Matches 225; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```

Qy 1 APPNLPDPKFEESKALLAARGPEELCTERLEDVCFWEESAASAGVGNGNYSFSYQLE 60
    |||||||
Db 25 APPNLPDPKFEESKALLAARGPEELCTERLEDVCFWEESAASAGVGNGNYSFSYQLE 84
    |||||||
Qy 61 DEPWKLCRLHQAPTAGAVRFWCSLPTADTSSFPVLELRYTASGAPRRYHRVHINEVYL 120
    |||||||
Db 85 DEPWKLCRLHQAPTAGAVRFWCSLPTADTSSFPVLELRYTASGAPRRYHRVHINEVYL 144
    |||||||
Qy 121 LDAPVGLVARLADSGHVLRWLPPETPMTSHIRYEVDSAGNGASGVORVEILEGRTE 180
    |||||||
Db 145 LDAPVGLVARLADSGHVLRWLPPETPMTSHIRYEVDSAGNGASGVORVEILEGRTE 204
    |||||||
Qy 181 CVLSNLGRGRTYTFVAVRARAEPSEFGFWSAMSEPVSLTPSDLD 225
    |||||||
Db 205 CVLSNLGRGRTYTFVAVRARAEPSEFGFWSAMSEPVSLTPSDLD 249
    |||||||
```

```

RESULT 3
US-09-791-537-38134
; Sequence 38134, Application US/09791537
; GENERAL INFORMATION:
; APPLICANT: Bionomix, Inc.
; APPLICANT: Debe, Derek
; APPLICANT: Danzer, Joseph
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBE
; FILE REFERENCE: 261/210
; CURRENT APPLICATION NUMBER: US/09/791,537
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 153055
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 38134
; LENGTH: 228
; TYPE: PRT
; ORGANISM: pdb 1CNA4
US-09-791-537-38134
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```

Query Match          98.6%; Score 1177; DB 5; Length 228;
Best Local Similarity 98.7%; Pred. No. 1.1e-104;
Matches 222; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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```

Qy 1 APPNLPDPKFEESKALLAARGPEELCTERLEDVCFWEESAASAGVGNGNYSFSYQLE 60
    |||||||
Db 4 APPNLPDPKFEESKALLAARGPEELCTERLEDVCFWEESAASAGVGNGNYSFSYQLE 63
    |||||||
Qy 61 DEPWKLCRLHQAPTAGAVRFWCSLPTADTSSFPVLELRYTASGAPRRYHRVHINEVYL 120
    |||||||
Db 64 DEPWKLCRLHQAPTAGAVRFWCSLPTADTSSFPVLELRYTASGAPRRYHRVHINEVYL 123
    |||||||
Qy 121 LDAPVGLVARLADSGHVLRWLPPETPMTSHIRYEVDSAGNGASGVORVEILEGRTE 180
    |||||||
Db 124 LDAPVGLVARLADSGHVLRWLPPETPMTSHIRYEVDSAGNGASGVORVEILEGRTE 183
    |||||||
```

```

Qy 181 CVLSNLGRGRTYTFVAVRARAEPSEFGFWSAMSEPVSLTPSDLD 225
    |||||||
Db 184 CVLSNLGRGRTYTFVAVRARAEPSEFGFWSAMSEPVSLTPSDLD 228
    |||||||
```

```

RESULT 4
US-09-791-537-68105
; Sequence 68105, Application US/09791537
; GENERAL INFORMATION:
; APPLICANT: Bionomix, Inc.
; APPLICANT: Debe, Derek
; APPLICANT: Danzer, Joseph
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY ME
; FILE REFERENCE: 261/210
; CURRENT APPLICATION NUMBER: US/09/791,537
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 153055
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 68105
; LENGTH: 227
; TYPE: PRT
; ORGANISM: pdb 1EERB
US-09-791-537-68105
```

```

Query Match          97.0%; Score 1158.5; DB 5; Length 227;
Best Local Similarity 98.2%; Pred. No. 6.7e-103;
Matches 220; Conservative 0; Mismatches 3; Indels 1; Gaps 1;
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```

Qy 2 PPNLPDPKFEESKALLAARGPEELCTERLEDVCFWEESAASAGVGNGNYSFSYQLE 61
    |||||||
Db 4 PPNLPDPKFEESKALLAARGPEELCTERLEDVCFWEESAASAGVGNGNYSFSYQLE 62
    |||||||
Qy 62 EPWKLCLRLHQAPTAGAVRFWCSLPTADTSSFPVLELRYTASGAPRRYHRVHINEVYL 121
    |||||||
Db 63 EPWKLCLRLHQAPTAGAVRFWCSLPTADTSSFPVLELRYTASGAPRRYHRVHINEVYL 122
    |||||||
Qy 122 DAPVGLVARLADSGHVLRWLPPETPMTSHIRYEVDSAGNGASGVORVEILEGRTEC 181
    |||||||
Db 123 DAPVGLVARLADSGHVLRWLPPETPMTSHIRYEVDSAGNGASGVORVEILEGRTEC 182
    |||||||
Qy 182 VLSNLGRGRTYTFVAVRARAEPSEFGFWSAMSEPVSLTPSDLD 225
    |||||||
Db 183 VLSNLGRGRTYTFVAVRARAEPSEFGFWSAMSEPVSLTPSDLD 226
    |||||||
```

```

RESULT 5
US-09-791-537-105911
; Sequence 105911, Application US/09791537
; GENERAL INFORMATION:
; APPLICANT: Bionomix, Inc.
; APPLICANT: Debe, Derek
; APPLICANT: Danzer, Joseph
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY ME
; FILE REFERENCE: 261/210
; CURRENT APPLICATION NUMBER: US/09/791,537
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 153055
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 105911
; LENGTH: 215
; TYPE: PRT
; ORGANISM: pdb 1EBAA
US-09-791-537-105911
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```

Query Match          94.9%; Score 1133; DB 5; Length 215;
Best Local Similarity 100.0%; Pred. No. 1.7e-100;
Matches 215; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```

Qy 10 KFEESKALLAARGPEELCTERLEDVCFWEESAASAGVGNGNYSFSYQLEDEPWKLCRL 69
    |||||||
```

```

Db      1 KESKAALLAAGPEELICFTERLEDVCFWEBAASAGVPGNYSFYOLEDEPMKICRL 60
OY      70 HOAPTARGAVRFWCSLPTADTSSFVPLELRYTAASGAPRYHRYIHNEVLLDAPVGLVA 129
Db      61 HOAPTARGAVRFWCSLPTADTSSFVPLELRYTAASGAPRYHRYIHNEVLLDAPVGLVA 120
OY      130 RLADSGHVLLRWLPPETPMTSHIRYEVDSAGNGAGSVORVEILEGRTCEVLSNLRGR 189
Db      121 RLADSGHVLLRWLPPETPMTSHIRYEVDSAGNGAGSVORVEILEGRTCEVLSNLRGR 180
OY      190 TRYTFAVRARMAEPSEFGFWSAMSEPVSLTPSD 224
Db      181 TRYTFAVRARMAEPSEFGFWSAMSEPVSLTPSD 215

```

```

RESULT 6
US-09-791-537-67299
; Sequence 67299, Application US/09791537
; GENERAL INFORMATION:
; APPLICANT: Biomix, Inc.
; APPLICANT: Debe, Derek
; APPLICANT: Dauter, Joseph
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBE
; FILE REFERENCE: 261/210
; CURRENT APPLICATION NUMBER: US/09/791,537
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 153055
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 67299
; LENGTH: 213
; TYPE: PRT
; ORGANISM: pdb 1ERNA
US-09-791-537-67299

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```

Query Match          94.1%; Score 1123; DB 5; Length 213;
Best Local Similarity 100.0%; Pred. No. 1.6e-99;
Matches 213; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

OY      10 KESKAALLAAGPEELICFTERLEDVCFWEBAASAGVPGNYSFYOLEDEPMKICRL 69
Db      1 KESKAALLAAGPEELICFTERLEDVCFWEBAASAGVPGNYSFYOLEDEPMKICRL 60
OY      70 HOAPTARGAVRFWCSLPTADTSSFVPLELRYTAASGAPRYHRYIHNEVLLDAPVGLVA 129
Db      61 HOAPTARGAVRFWCSLPTADTSSFVPLELRYTAASGAPRYHRYIHNEVLLDAPVGLVA 120
OY      130 RLADSGHVLLRWLPPETPMTSHIRYEVDSAGNGAGSVORVEILEGRTCEVLSNLRGR 189
Db      121 RLADSGHVLLRWLPPETPMTSHIRYEVDSAGNGAGSVORVEILEGRTCEVLSNLRGR 180
OY      190 TRYTFAVRARMAEPSEFGFWSAMSEPVSLTPSD 222
Db      181 TRYTFAVRARMAEPSEFGFWSAMSEPVSLTPSD 213

```

```

RESULT 7
US-09-502-984B-2
; Sequence 2, Application US/09502984B
; GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984B
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.1

```

```

; SEQ ID NO 2
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-502-984B-2

```

```

Query Match          93.1%; Score 1112; DB 5; Length 211;
Best Local Similarity 100.0%; Pred. No. 1.7e-98;
Matches 211; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

OY      10 KESKAALLAAGPEELICFTERLEDVCFWEBAASAGVPGNYSFYOLEDEPMKICRL 69
Db      1 KESKAALLAAGPEELICFTERLEDVCFWEBAASAGVPGNYSFYOLEDEPMKICRL 60
OY      70 HOAPTARGAVRFWCSLPTADTSSFVPLELRYTAASGAPRYHRYIHNEVLLDAPVGLVA 129
Db      61 HOAPTARGAVRFWCSLPTADTSSFVPLELRYTAASGAPRYHRYIHNEVLLDAPVGLVA 120
OY      130 RLADSGHVLLRWLPPETPMTSHIRYEVDSAGNGAGSVORVEILEGRTCEVLSNLRGR 189
Db      121 RLADSGHVLLRWLPPETPMTSHIRYEVDSAGNGAGSVORVEILEGRTCEVLSNLRGR 180
OY      190 TRYTFAVRARMAEPSEFGFWSAMSEPVSLT 220
Db      181 TRYTFAVRARMAEPSEFGFWSAMSEPVSLT 211

```

```

RESULT 8
US-09-791-537-86927
; Sequence 86927, Application US/09791537
; GENERAL INFORMATION:
; APPLICANT: Biomix, Inc.
; APPLICANT: Debe, Derek
; APPLICANT: Dauter, Joseph
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY ME
; FILE REFERENCE: 261/210
; CURRENT APPLICATION NUMBER: US/09/791,537
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 153055
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 86927
; LENGTH: 211
; TYPE: PRT
; ORGANISM: pdb 1EBPA
US-09-791-537-86927

```

```

Query Match          93.1%; Score 1112; DB 5; Length 211;
Best Local Similarity 100.0%; Pred. No. 1.7e-98;
Matches 211; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

OY      10 KESKAALLAAGPEELICFTERLEDVCFWEBAASAGVPGNYSFYOLEDEPMKICRL 69
Db      1 KESKAALLAAGPEELICFTERLEDVCFWEBAASAGVPGNYSFYOLEDEPMKICRL 60
OY      70 HOAPTARGAVRFWCSLPTADTSSFVPLELRYTAASGAPRYHRYIHNEVLLDAPVGLVA 129
Db      61 HOAPTARGAVRFWCSLPTADTSSFVPLELRYTAASGAPRYHRYIHNEVLLDAPVGLVA 120
OY      130 RLADSGHVLLRWLPPETPMTSHIRYEVDSAGNGAGSVORVEILEGRTCEVLSNLRGR 189
Db      121 RLADSGHVLLRWLPPETPMTSHIRYEVDSAGNGAGSVORVEILEGRTCEVLSNLRGR 180
OY      190 TRYTFAVRARMAEPSEFGFWSAMSEPVSLT 220
Db      181 TRYTFAVRARMAEPSEFGFWSAMSEPVSLT 211

```

```

RESULT 9
US-09-502-984B-18
; Sequence 18, Application US/09502984B

```

```

; GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984B
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984B-18
```

```

Query Match          92.1%; Score 1100; DB 5; Length 211;
Best Local Similarity 99.1%; Pred. No. 2, 4e-97;
Matches 209; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```

QY 10 KFSKALLAARGPEELCTERLEDLVCFWEBAASAGVPGNYSFSYOLEDEPWLKRL 69
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1 KFSKAAFLAARGPEELCTERLEDLVCFWEBAASAGVPGNYSFSYOLEDEPWLKRL 60
QY 70 HQAPTARGAVFWCSLPTADTSSFVLELRVTASGAPRHRVHINEVLLDAPVGLVA 129
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 61 HQAPTARGAVFWCSLPTADTSSFVLELRVTASGAPRHRVHINEVLLDAPVGLVA 120
QY 130 RLADSGHVLLRWLPPPEPMTSHIREVDVSAGNGAGSVORVLELGRTECVLSMLRGR 189
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 121 RLADSGHVLLRWLPPPEPMTSHIREVDVSAGNGAGSVORVLELGRTECVLSMLRGR 180
QY 190 TRTYFAVRARMAEPSTFGFWSAMSEPVSLIT 220
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 181 TRTYFAVRARMAEPSTFGFWSAMSEPVSLIT 211
```

```

RESULT 10
US-09-502-984B-7
; Sequence 7, Application US/09502984B
; GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984B
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984B-7
```

```

Query Match          92.0%; Score 1099; DB 5; Length 211;
Best Local Similarity 98.1%; Pred. No. 3e-97;
Matches 207; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
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```

QY 10 KFSKALLAARGPEELCTERLEDLVCFWEBAASAGVPGNYSFSYOLEDEPWLKRL 69
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1 KFSKALLAARGPEELCTERLEDLVCFWEBAASAGVPGNYSFSYOLEDEPWLKRL 60
```

```

QY 70 HQAPTARGAVFWCSLPTADTSSFVLELRVTASGAPRHRVHINEVLLDAPVGLVA 129
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 61 HQAPTARGAVFWCSLPTADTSSFVLELRVTASGAPRHRVHINEVLLDAPVGLVA 120
QY 130 RLADSGHVLLRWLPPPEPMTSHIREVDVSAGNGAGSVORVLELGRTECVLSMLRGR 189
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 121 RLADSGHVLLRWLPPPEPMTSHIREVDVSAGNGAGSVORVLELGRTECVLSMLRGR 180
QY 190 TRTYFAVRARMAEPSTFGFWSAMSEPVSLIT 220
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 181 TRTYFAVRARMAEPSTFGFWSAMSEPVSLIT 211
```

```

RESULT 11
US-09-502-984B-12
; Sequence 12, Application US/09502984B
; GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984B
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984B-12
```

```

Query Match          91.9%; Score 1097; DB 5; Length 211;
Best Local Similarity 97.6%; Pred. No. 4, 7e-97;
Matches 206; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
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```

QY 10 KFSKALLAARGPEELCTERLEDLVCFWEBAASAGVPGNYSFSYOLEDEPWLKRL 69
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1 KFSKALLAARGPEELCTERLEDLVCFWEBAASAGVPGNYSFSYOLEDEPWLKRL 60
QY 70 HQAPTARGAVFWCSLPTADTSSFVLELRVTASGAPRHRVHINEVLLDAPVGLVA 129
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 61 HQAPTARGAVFWCSLPTADTSSFVLELRVTASGAPRHRVHINEVLLDAPVGLVA 120
QY 130 RLADSGHVLLRWLPPPEPMTSHIREVDVSAGNGAGSVORVLELGRTECVLSMLRGR 189
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 121 RLADSGHVLLRWLPPPEPMTSHIREVDVSAGNGAGSVORVLELGRTECVLSMLRGR 180
QY 190 TRTYFAVRARMAEPSTFGFWSAMSEPVSLIT 220
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 181 TRTYFAVRARMAEPSTFGFWSAMSEPVSLIT 211
```

```

RESULT 12
US-09-502-984B-13
; Sequence 13, Application US/09502984B
; GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984B
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 37
```

```
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984B-13
```

```
Query Match          91.8%; Score 1096; DB 5; Length 211;
Best Local Similarity 97.6%; Pred. No. 5.9e-97;
Matches 206; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
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```
QY 10 KESKRAALLAARGPEELLCFTERLEDVLCFWEBAASAGVPGNYSFQLEDEPMKLCRL 69
DB 1 KESKRAALLAARGPEELLCFTERLEDVLCFWEBAASAGVPGNYSFQLEDEPMKLCRL 60
QY 70 HQAPTAAGAVRFWCSLPTADTSSFPVLELRYTAASGAPRHYRHINEVVLADAPYGLVA 129
DB 61 HQAPTAAGAVRFWCSLPTADTSSFPVLELRYTAASGAPRHYRHINEVVLADAPYGLVA 120
QY 130 RLADSGHVVLRMLPPPEPMTSHIRYEVDSAGNGAGSVORVEILEGRTCEVLSNLGR 189
DB 121 RLADSGHVVLRMLPPPEPMTSHIRYEVDSAGNGAGSVORVEILEGRTCEVLSNLGR 180
QY 190 TRYTFVAVRARMAEPSPFGFWSAMSEPVSLLT 220
DB 181 TRYTFVAVRARMAEPSPFGFWSAMSEPVSLLT 211
```

RESULT 13

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US-09-502-984B-14
; Sequence 14, Application US/09502984B
; GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984B
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984B-14
```

```
Query Match          91.8%; Score 1096; DB 5; Length 211;
Best Local Similarity 97.6%; Pred. No. 5.9e-97;
Matches 206; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 10 KESKRAALLAARGPEELLCFTERLEDVLCFWEBAASAGVPGNYSFQLEDEPMKLCRL 69
DB 1 KESKRAALLAARGPEELLCFTERLEDVLCFWEBAASAGVPGNYSFQLEDEPMKLCRL 60
QY 70 HQAPTAAGAVRFWCSLPTADTSSFPVLELRYTAASGAPRHYRHINEVVLADAPYGLVA 129
DB 61 HQAPTAAGAVRFWCSLPTADTSSFPVLELRYTAASGAPRHYRHINEVVLADAPYGLVA 120
QY 130 RLADSGHVVLRMLPPPEPMTSHIRYEVDSAGNGAGSVORVEILEGRTCEVLSNLGR 189
DB 121 RLADSGHVVLRMLPPPEPMTSHIRYEVDSAGNGAGSVORVEILEGRTCEVLSNLGR 180
QY 190 TRYTFVAVRARMAEPSPFGFWSAMSEPVSLLT 220
DB 181 TRYTFVAVRARMAEPSPFGFWSAMSEPVSLLT 211
```

```
DB 181 TRYTFVAVRARMAEPSPFGFWSAMSEPVSLLT 211
```

RESULT 14

```
US-09-502-984B-15
; Sequence 15, Application US/09502984B
; GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984B
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984B-15
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```
Query Match          91.8%; Score 1096; DB 5; Length 211;
Best Local Similarity 97.6%; Pred. No. 5.9e-97;
Matches 206; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 10 KESKRAALLAARGPEELLCFTERLEDVLCFWEBAASAGVPGNYSFQLEDEPMKLCRL 69
DB 1 KESKRAALLAARGPEELLCFTERLEDVLCFWEBAASAGVPGNYSFQLEDEPMKLCRL 60
QY 70 HQAPTAAGAVRFWCSLPTADTSSFPVLELRYTAASGAPRHYRHINEVVLADAPYGLVA 129
DB 61 HQAPTAAGAVRFWCSLPTADTSSFPVLELRYTAASGAPRHYRHINEVVLADAPYGLVA 120
QY 130 RLADSGHVVLRMLPPPEPMTSHIRYEVDSAGNGAGSVORVEILEGRTCEVLSNLGR 189
DB 121 RLADSGHVVLRMLPPPEPMTSHIRYEVDSAGNGAGSVORVEILEGRTCEVLSNLGR 180
QY 190 TRYTFVAVRARMAEPSPFGFWSAMSEPVSLLT 220
DB 181 TRYTFVAVRARMAEPSPFGFWSAMSEPVSLLT 211
```

RESULT 15

```
US-09-502-984B-11
; Sequence 11, Application US/09502984B
; GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984B
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984B-11
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Query Match          91.7%; Score 1095; DB 5; Length 211;
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Best Local Similarity 97.6%; Pred. No. 7.4e-97;
Matches 206; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

```
OY 10 KFSKKAALLAARGPEELLCTERLEDELVCFWEEAASAGVGPNGVNSFSYOLEDEDPWKL CRL 69
    |||||||
Db 1 KFSKKAALLAARGPEELLCTERLEDELVCFWEEAASAGVGPNGVNSFSYOLEDEDPWKL CRL 60
    |||||||
OY 70 HQAPTARGAVRFWCSLEPTADTSSFPLELRVTAASGAPRYHRVTHINEVVLDPVGLVA 129
    |||||||
Db 61 HQAPTARGAVRFWCSLEPTADTSSFPLELRVTAASGAPRYHRVTHINEVVLDPVGLVA 120
    |||||||
OY 130 RLADSGHVVLRLPPPETPMTSHIREVDVSAGNGAGSVQRYEILEGRTCEVLSNLGR 189
    |||||||
Db 121 RLADSGHVVLRLPPPETPMTSHIREVDVSAGNGAGSVQRYEILEGRTCEVLSNLGR 180
    |||||||
OY 190 TRTYFAVRARMAEPSEFGCFWMSANSEPSILT 220
    |||||||
Db 181 TRTYFAVRARMAEPSEFGCFWMSANSEPSILT 211
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